Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2021-06-22-25**	**Date: 05-05-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."	
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/83/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-05-21	
Sample Type	:	Bitumen	
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)	
Date of Test	:	03-05-21	

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

* The results obtained are satisfactory as per standard requirements.

Note:-

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2021-06-22-25** **Date: 10-05-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/83/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-21
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	08-05-21
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2021-06-22-25** **Date: 11-05-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/83/2020-21
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-21
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	08-05-21

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11	15	9KN(Min)
2	Marshal flow at 60°C, mm	2	4	2-4
3	Percent air Voids	3	3	3-5
4	Percent Voids in mineral Aggregate(VMA %)	15	15	13-15
5	Percent Voids filled with Bitumen(VFB %)	72	68	65-75
6	Density, g/cc	2.42	2.40	-

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Date: 11-05-21

Lab ID	:	CP-RW-2021-06-22-25
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/83/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-21
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of Test	:	08-05-21

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-
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QC ABSTRACT

NAME OF WORK: "Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
2	GSB	SIEVE ANALYSIS	One Test		1	1
3	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
4	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
5	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
6	BITUMEN	Gradation	One Test		1	1
		Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
7	TACK COAT	Fire Point	One Test		1	1
		Rate of spread	One Test		1	1

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2021-06-22-25	Date: 21-04-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."	
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064	
Customer Reference	:	BBMP/EE/YNK D/EPMT-01/W O/83/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-04-21	
Type of Mix	:	GSB (Granular Sub Base)	
Date of Test	:	19-04-21	
Oven Dry Weight	:	10000 Grams	

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Date: 26-04-21

Lab ID	:	CP-RW-2021-06-22-25
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/83/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	24-04-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Peecntage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Date: 26-04-21

Lab ID	:	CP-RW-2021-06-22-25
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/83/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	24-04-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

• The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2021-06-22-25 Date: 17-05-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/83/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-05-21
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	14-05-21

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 22-05-21

Lab ID	:	CP-RW-2021-06-22-25
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and drains Balance Main and Cross Roads of A Sector in Ward No-04."
Agency	:	Smt C Hema Ganesh (Sri Krishna Construction), No.13/1, Attur Layout 6th Cross Santhoshnagara, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/83/2020-21
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	21-05-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	21-05-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	6.00
4	Average percentage	%	5.9	

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Lab ID : CP-RW-2021-06-22-25 Date: 22-05-21

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specifiction table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	55	452	96.0	4.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specifiction table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.9	62.1	53-71
2.36	88	266	56.6	43.4	42-58
1.18	29	295	62.8	37.2	34-48
0.6	11	306	65.1	34.9	26-38
0.3	46	352	74.9	25.1	18-28
0.15	45	397	84.5	15.5	12-20
0.075	55	452	96.2	3.8	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಸಹಾಯಕ ಆಯುಕ್ತರು ಮಲ್ಲೇಶ್ವರಂ ಉಪವಿಭಾಗ, ಬೆಂಗಳೂರು-03

CIVIL Pro Sig. Date. BANGALORE

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